

INOSOVA, K. I.

USSR/Geology - Conference, Spore Dust

Sep/Oct 53

"All-Union Spore-Dust Conference," N. I. Neyshtadt and I. N. Pokrovskaya

In Ak Nauk SSSR, Ser Geog, No 5, pp 106-111

A report on the conference, held 11-16 May 1953 in Leningrad by the Dept of Geol-
Geog Sci, Acad Sci USSR, and by the All-Union Sci-Res Geol Inst and attended by
280 participants from 79 organizations. I. P. Gerasimov, Corr-Mem Acad Sci USSR,
gave the opening address. M. I. Neyshtadt, N.M. Pokrovskaya and S. I. Naumova present-
ed reports on "Contemporary Status of Palynology in USSR and Related Problems of Spore-
Dust Analysis." Other reports were by: N. K. Stal'mak, V. P. Grichuk, L. S. Tuzova,
M. N. Odintsova, E. Z. Kopytova, A. F. Kovaleva, L. A. Yushko, K. I. Inosova, Ye. G.
Zusser, Ye. M. Andreyeva, L. N. Gutova, Yu. M. Kuzichkins, V. A. Bolkhovitina, G. I.
Kedo, A. I. Moskvitin, V. I. Paranov, A. I. Zhurav, Ye. V. Koreneva, N. Ya. Kata, S. V.
Kats', M. M. Karavayev, N. I. P'yavchenko, N. A. Shchekina, N. N. Sigova, Ye. D.
Zaklinskaya, G. S. Ganeshin, N. N. Grishenko, A. A. Larishchev, A. A. Lyuber, M. A.
Sedova, L. A. Kupriyanova, M. Kh. Moneszon, S. R. Samoylovich, A. N. Gladkov, K. V.
Zhelubovskaya, S. N. Tyurezov, and V. V. Zauyer.

271T73

ENGSERH, K.I.

YABLOKOV, V.S.; BOGOOLYUBOVA, L.I.; KALINENKO, V.V.; INOSOVA, K.I.; ISHCHEMENKO,
A.M.; ZHEMCHUZHNIKOV, Yu.A., redaktor; MOSOV, G.I., redaktor; KISELEVVA,
A.A., tekhnicheskiy redaktor

[Atlas of the microstructure of the coals of the Donets Basin] Atlas
mikrostruktur uglei Donetskogo basseina. Pod red. V.S. Yablokova i
I.U.A. Zhemchuzhnikova. Moskva, Izd-vo Akademii nauk SSSR, 1955. 41 p.
(Donets Basin--Coal) (MLRA 9:1)

INO SOVA, K. I.

USER/ Geology - Paleontology

Card 1/1 Pub. 22 - 45/60

Authors : Inosova, K. I., and Nesterenko, L. P.

Title : About the spores and pollens of the Permian period deposits in the Don River basin

Periodical : Dok. AN SSSR 100/4, 779-782, Feb 1, 1955

Abstract : The geological and paleontological characteristics of spores and pollens found in Permian and upper coal layers of the western part of the Don River basin in the USSR are described. Eight USSR references (1937-1952). Illustrations.

Institution : Ministry of the Coal Industry USSR, The State All-Union Geological Trust "Artemuggeologiya"

Presented by: Academician D. V. Nalivkin, July 7, 1954

<i>I N O S O V A, K. I.</i>	
USSR/ Geology	
Card 1/1	Pub. 16 - 32/42
Authors	: Nesterenko, L. P., <u>Inosova, K. I.</u> , and Stepanov, A. A. (Donbass)
Title	: Carbonized wood in mineral salt
Periodical	: Priroda 45/1, page 117, Jan 56
Abstract	: The finding of a piece of carbonized wood in a strata of rock salt in salt mine No. 2 in the Donbass region is taken as an indication of the existence of dry land with heavy vegetation in the vicinity of the areas which produced the salt. Illustration.
Institution	:
Submitted	:

FEOFILIOVA, Ariadna Pavlovna; LEVENSHTEYN, Mordko Leybovich; Prinimali
uchastiye: TIMOFEYeva, Z.V.; MANUKALOVA-GREBENYUK, M.F.; INOSOVA,
K.I.; KURILOVA, K.F.; SOKOLOVA, G.U.; TYABICHENKO, O.P.; TIMOFETEV,
P.P., otv.red.; GALUSHKO, Ya.A., red.izd.-va; VOLKOVA, V.V., tekhn.red.

[Sediment and coal accumulation in the Lower and Middle Carboniferous
in the Donets Basin] Osobennosti osadko- i uglenakopleniiia v nizhnem
i sredнем karbone Donetskogo basseina. Moskva, Izd-vo Akad. nauk
SSSR, 1963. 174 p. (Akademija nauk SSSR. Geologicheskij institut.
Trudy, no.73). (MIRA 16:8)

1. Geologicheskiy institut AN SSSR (for Timofeyeva). 2. Trest
Artemgeologiya (for Manukalova-Grebenuk, Inosova, Kurilova,
Sokolova, Ryabichenko).

(Donets Basin--Geology, Stratigraphic)
(Donets Basin--Coal geology)

BERDYUKOVA, M.D.; JEDSOVA, K.L.; ISMICHENKO, A.M. [deceased];
KOLOMEYTSEVA, A.K.; LIFSHITS, M.M.; PAZUKHINA, D.K.;
SHARAYEVA, L.N.; SHIROKOV, A.Z.; VAL'TS, I.E., red.;
STRUYEV, M.I., red.; NIKOLAYEVA, I.N., red.

[Atlas of the Lower Carboniferous coals of the Donets Basin]
Atlas uglei nizhnego karbona Donetskogo basseina. [By] M.D.
Berdiukova i dr. Moskva, Nauka, 1964. 101 p.
(MIRA 18:4)

RAKHIMOV, Kh.R.; NYRKova, L.P.; INOYATOV, K.I.

Ternary complexes in the system metal ion - anabasine - salicylate
ion. Nauch.trudy TashGU no.257. Khim.nauki no.12:94-97 '64.
(MIRA 13:8)

YERSHOV, L.D., kand.tekhn.nauk; CHEHNYSHOV, G.S., inzh.; LUKASHENKO, I.A.,
inzh.; UDOVIK, L.N., inzh.; LESHCHINA, A.S., inzh.; GAS, Ye.Ya.,
inzh.. Prinimali uchastiye: BORTNIK, S.P., inzh.; EPKL'BOYM, P.L.,
inzh.; IMOSOVA, N.A.. LUKASHENKO, I.A., inzh., red.

[Instructions for manufacturing three-step blocks for arched roofs
made without forms] Instruktivnye materialy po proizvodstvu
trekhstupenchatykh blokov dlia besopalubochnykh svodchatykh
pokrytii. Kiev, Biuro tekhn.informatsii NIISK ASIA USSR, 1958.
35 p. (MIRA 12:4)

1. Akademiya budivnytstva i arkhitektury URSSR. Instytut budivel'nykh
materialiv i vyrabiv.
(Building blocks) (Roofs)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7

ZHUKOV, A., kand. tekhn. nauk; SAKHAROVA, N., kand. tekhn. nauk; IINOSOVA, N.
inzh.; DIKOVA, S., inzh.

Technological characteristics of producing double-layer facing bricks.
Stroi. mat. 4 no.12:15-16 D '58. (MIREA 11:12)
(Brickmaking)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7

ZHUKOV, A.V.; SAKHAROVA, N.A.; SHELUNTSOV, V.I.; INOSOVA, N.L.; YATSUNOVA, O.

Colored facing tile of semi-dry pressing from tile raw material.
Stroi. mat., det. i izd. no. 291-105 '65 (MIRA 19:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut stroitel'-
nykh materialov i izdeliy, Kiyev' (for Zhukov, Sakhrova). 2.
Kiyevskiy eksperimental'no-issledovatel'skiy navod (for Shelun-
tsov, Inosova, Yatsunova).

INOTAI, T.

INOTAI, T.

Tariff schedules for rates in trucking. p. 453

Vol. 11, No. 23, June, 1955 Budapest, Hungary KOZLEMEDESI KOZLONY

SO: Monthly List of East European Accessions, (EERAL), LC, Vol. 5
No. 3, March, 1956

INOUE, T.

INOUE, TAKA

FUJIMOTO, T., INOUE, K., INOUE, T.

Chemistry Institute, Faculty of Science, University of Kyoto,
Sakyo-ku, Kyoto, Japan. (for all).

Prague, Collection of Czechoslovak Chemical Communications,
No 12, December 1965, pp 4203-4209

"Studies on the use of electrochemical methods in the polarographic trace analysis."
(For the 75th birthday of Academician J. Heyrovsky).

INOV. I.; KAZYUTINSKIY, V.

Eternal youth of the universe. Nauka i zhizn' 28 no.125-29 Ja.
'61. (MIRA 14:1)

(Universe, Destruction of)

HUNGARY

INOVAY, Dr Janos, Clinic for Oral Surgery (Szajsebeszeti Klinika), Budapest.

"Regional Metastases of Oral Tumors and Tumors of the Jaw Bone"

Budapest, Magyar Onkologia, Vol 10, No 4, Dec 1966; p 207.

Abstract: During the period 1 Jan 54 to 31 Dec 64, 406 patients with oral and jaw-bone tumors were treated at author's clinic. 61.0% of these tumors led to metastases in the submandibular triangle. Tumors of the lower lip, tongue and floor of the oral cavity caused bilateral metastases in many cases. Tumors of the floor of the oral cavity, which occurred in 10% of the patient material, form metastases at a later stage. Surgical removal of all metastases is indicated. No references.

1/1

HORVATH, Laszlo, dr.; GOLLMER, Viktor, t.s.; CSABAY, Laszlo, o.h.;
INOVAY, Janos, dr.

Examination of the blood serum in mongolian idiots by means of
paper electrophoresis. Orv. hetil. 96 no.42:1166-1167 16 Oct 55.

1. A Gyogypedagogiai Tanarkepzó Foiscola Elettani Tanszekenek
(tanszekvezető Horvath László dr. főiskolai tanár) és a Budapesti
Orvostudományi Egyetem Fogaszati Klinikajának (igazgató: Balogh
Károly dr. egyet. tanár) közleménye.

(MONGOLISM, blood in

gamma globulin & other blood proteins, electrophoresis,
relation to susceptibility to infect. (Hun))

(GAMMA GLOBULIN, in various dis.

mongolism, electrophoresis, relation to susceptibility
to infect. (Hun))

(BLOOD PROTEINS, in various dis.
same)

INOVAY, Janos, dr.; BALOGH, Gyongyi, dr.

Comparative study on local anesthetics. Fogorv. szemle 58 no.6:
176-179 Ja '65

1. Kozlemeny a Budapesti Orvostudomanyi Egyetem Szajsebeszeti
Klinikajarol (Igazgato: Balogh, Karoly, dr., egyseni tanar).

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7

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CLOUDS AND CLOUDS

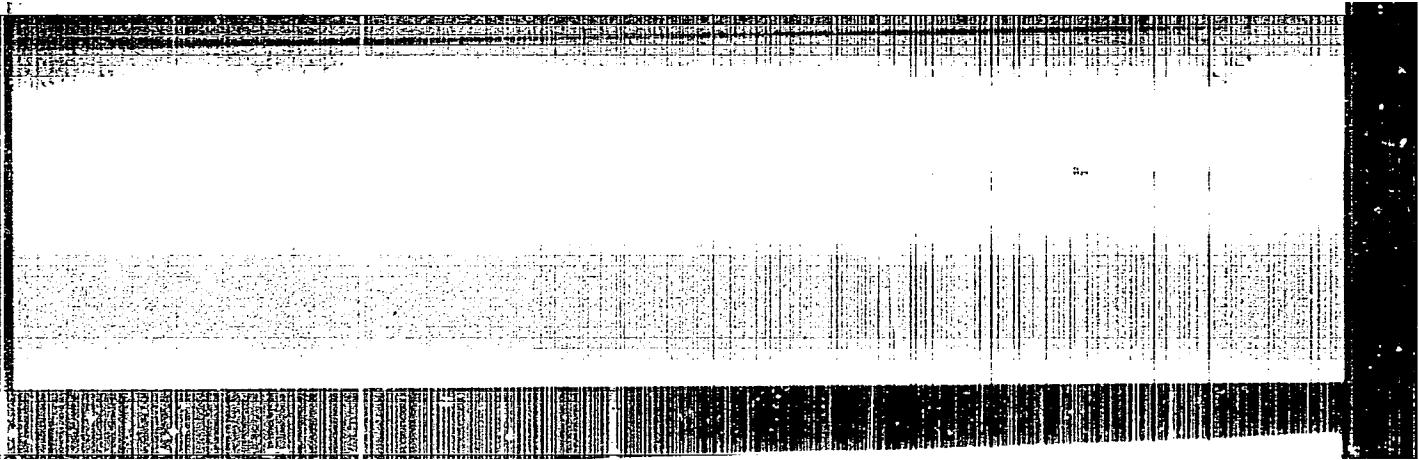
CLOUDS AND CLOUDS

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APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7"

HUNGARY

ENOVAY, Janos, Jr., Dr; Medical University of Budapest, Oral Surgery
Clinic (Budapesti Orvostudomanyi Egyetem, Szajsebészeti Klinika)

"Hemihypertrophy Faciei."

Budapest, Orvosi Hetilap, Vol 103, No 51, 23 Dec 62, pages 2430-2432.

Hungarian

Abstract: [Author's summary] The author discusses a form of hemihypertrophy unilateralis partialis congenitalis based on an observed case. Further, he discusses the pathology and clinical manifestations of the syndrome.

[15 Western references]

L
1/1

ROGANOV, B., INOYATOV, A.

Cotton Manufacture

Initial processing of machine-gathered cotton Kholokovodstov No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

INOYATOV, A.Ya., dotsent

A formula developed by the All-Union Heat-Engineering Institute and
the Central Research Institute for Boilers and Turbines. Sbor.nauch.-
issl.rab. TTI no.9:73-82 '60. (MIRA 15:6)
(Heat—Transmission)

INOYATOV, A. Ya.

Selection of the size factor in case of a longitudinal flow about a
bundle of pipes. Sbor.nauch.-issl.rab. TTI no.9:83-95 '60.

(MIRA 15:6)

(Pipe—Hydrodynamics)

(Heat—Transmission)

AVEDISOV, S.S.; INOYATOV, I.M.

Diverticula of the stomach. Khirurgiia no.3:99-101 '62.
(MIRA 15:3)

1. Iz khirurgicheskogo otdeleniya (zav. - doktor med.nauk S.S.
Avedisov) bol'nitsy No.30 (glavnnyy vrach N.L. Belyayeva) Moskvy.
(STOMACH--DISEASES)

INOYATOV, I.M.

Indications for and the technique of performing a posterior proctotomy (rectotomy). Akad. vop. prokt. no. 2:189-200 '63

(MIR 18:1)

USMANOV, Kh.U.; KARGIN, V.A.; AYKHODZHAYEV, B.I.; INOYATOV, N.Sh.

Upgrading of cotton cord by means of ozonization. Vysokom.
soed. 2 no.1:88-91 Ja '60. (MIRA 13:5)

1. Institut khimii polimerov AN UzSSR.
(Ozone) (Cotton)

INOXATOV, N.Sh.; KHAKIMOV, I.Kh.; USMANOV, Kh.U.

Thermodynamic functions of water and methanol when sorbed by
cotton cellulose and cellulose hydrate. Uzb. khim. zhur. no.6:
16-20 '60. (MIRA 14:1)

1. Institut khimii polimerov AN UzSSR. 2. Chlen-korrespondent
AN UzSSR (for Usmanov).
(Cellulose) (Thermodynamics)
(Methanol)

USMANOV, Kh.U.; NIGMANKHODZHAYEVA, M.S.; KHAKIMOV, I.; INOYATOV, N.

Effect of the time of defoliation of cotton plants on the
mechanical and thermodynamic properties of cotton fiber.
Uzb.khim.zhur. no.5:21-26 '61. (NIRA 14:9)

1. Institut khimii polimerov AN Uzbekskoy SSR. 2. Chlen-kor-
respondent AN Uzbekskoy SSR (for Usmanov).
(Cotton)

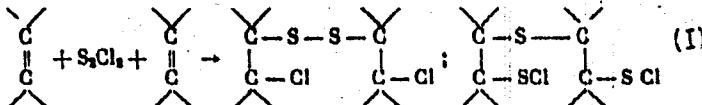
S/190/61/003/006/002/019
B110/B216

AUTHORS: Aykhodzhayev, B. I., Usmanov, Kh. U., Inoyatov, N. Sh.,
Zaurov, R. I.

TITLE: Cross-linking of hydrated cellulose fibers by means of
sulfur monochloride

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 6, 1961, 806-810

TEXT: Rupture of not very flexible cellulose fibers occurs at points of
specially weak molecular interaction. The influence of chemical cross-
links between the chains of the cellulose molecules on the magnitude and
uniformity of the strength of the fiber was studied. On vulcanization of
crystalline polymers below their melting point by means of sulfur mono-
chloride, cross-linking mainly occurs in the amorphous parts. Sulfur
monochloride forms the following compounds with unsaturated linear polymers:



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S/190/61/003/006/002/019

Cross-linking of hydrated cellulose fibers... B110/B216

In the presence of compounds with mobile hydrogen atoms (amines, amides, alcohols) sulfur monochloride reacts with the hydrogen atoms:

$R-OH + S_2Cl_2 \rightarrow R-O-S-S-Cl + KCl$ (II). Cross-linking of the cellulose molecules occurs in the following way:

$cel-OH + S_2Cl_2 + OH-cel \rightarrow cel-O-S-S-O-cel + 2HCl$ (III), mainly at

losely packed points. Hydrated cellulose fiber in cord form, dried for 2 hr at 100°C (degree of polymerization 400-450) was treated with 2 and 5 ml of sulfur monochloride in dry benzene (198 and 95 ml) at 20°C. (1 g

of S_2Cl_2 to 2 g of viscose cord, density of $S_2Cl_2 = 1.65 \text{ g/cm}^3$). The mechanical and physicochemical properties of the viscose cord were tested after washing it 2-3 times with commercial benzene and drying it at 90-100°C. Break resistance and total deformation were tested at 25 and 100°C, sorption of steam at 25°C, sulfur content and deformation components at 25°C. Break resistance and breaking elongation measurements were made using a swing dynamometer with 2 scales: 0-10 kg and 0-30 kg, a compression length of 400 mm/min and an elongation rate of 300 mm/min. The 0.8-mm diameter cord fiber was first subjected to a stress of 70 g, and

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Cross-linking of hydrated cellulose fibers... B110/B216

then tested for 24 hr at standard temperature and -humidity conditions. The total elongation l_{tot} was tested on a fiber of length $l_v = 400$ mm and applying a stress of 70 % of the mean strength, the residual elongation l_{plast} was determined after removing the load for 1 min from the fiber.

The elastic deformation l_{el} in percent was obtained from

$l_{el}/l_{tot} = [(l_{tot} - l_{plast})/l_{tot}] \cdot 100$. The mean strength, breaking elongation and components were averaged from 10 ruptures for each cord filament. According to tests , treatment with a 5 % S_2Cl_2 solution

increases the strength by 15 % (from 9.7 to 11.1) and the elastic elongation from 1.47 to 1.89 and brings about a uniform distribution of the strength over the length of the cord. Strength variations of the initial cord from the mean value by 1.1 kg were reduced to 0.7 kg, and the elastic elongation was increased from 4.4 to 5.3 %. Since the S_2Cl_2 treatment has

no effect on the sorptive properties, the increase of strength must be due to chemical cross-links, which prevent the sliding of macromolecules during elongation. The cross-links at points of weak molecular interaction effect

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B110/B216

Cross-linking of hydrated cellulose fibers...

uniformity of strength over the entire length. The reaction(III) was verified experimentally in the following manner: Primary and secondary cellulose acetate ($\gamma = 180-200$) were treated with 5 % S_2Cl_2 solution. This rendered the secondary cellulose acetate insoluble in acetone, while the primary compound remained soluble in methylene chloride. Even at $100^{\circ}C$, as illustrated by the data, the strength is increased, elongation slightly reduced, the sulfur content increased by 0.4 % (1 S atom to 100 cellulose units and 1 cel-O-S-S-O-cel bond to 100 glucose units), and dissolution decreased and decelerated, facts which all indicate the presence of cross links. Since side groups cel-O-S-S-Cl, cel-O-S-Cl which are not cross-linked, may also be present, there are more than 100 glucose units to each cross link. The considerable change in the mechanical properties produced by comparatively few cross links is explained by hydrogen bonds. The authors thank V. A. Kargin for discussing the results. There are 2 tables and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc. The two references to English-language publications read as follows:
Ref. 6: S. Glaser, I. H. Schulmann, J. Polymer Sci. 14, 169, 1954. Ref. 7: I. H. Schulmann, S. Glaser, J. Polymer Sci. 14, 225, 1954.

Card 4/5

S/190/61/003/006/002/019
Cross-linking of hydrated cellulose fibers... B110/B216

ASSOCIATION: Institut khimii polimerov AN UzSSR (Institute of Polymer Chemistry AS Uzbekskaya SSR)

SUBMITTED: March 21, 1960

Card 5/5

S/3099/62/000/001/0197/0204

ACCESSION NR: AT4040807

AUTHOR: Inoyatov, N., Zaurov, R. I., Aykhodzhayev, B. I.

TITLE: Interaction of sulfur monochloride with polyvinyl alcohol

SOURCE: AN UzSSR. Institut khimii polimerov. Fizika i khimiya prirody "Kh i sinteticheskikh polimerov, no. 1, 1962, 197-204

TOPIC TAGS: polymer structure, polymer physical property, polyvinyl alcohol, sulfur monochloride, polymer sulfide bridge, polymer solubility, polymer strength, polymer sulfur content

ABSTRACT: To test the interaction of sulfur monochloride with polyvinyl alcohol, polymer films of various thicknesses were prepared and subjected to various concentrations (1,5 or 10 vol. %) of sulfur monochloride for 10 minutes to 48 hours at 25C. After the treatment the films were removed and washed three times with ether, before being analyzed for the content of bound sulfur, chloride and solubility in water at 70C. The mechanical properties of the films were also tested with a dynamometer. The results show an increase in bound sulfur with increasing sulfur monochloride concentration and time of interaction, but a sharp decrease in solubility in water. Analyses for chloride were negative. As shown in the

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ACCESSION NR: AT4040807

Enclosure, the rupture strength and rupture elongation increased with increasing sulfur content (up to 0.7%), after which a further increase decreased the strength. The authors attribute the increase in strength to formation of crosslinking sulfide bonds in the parts of the macromolecule with the least dense packing. Orig. art. has: 4 figures and 1 chemical equation.

ASSOCIATION: Institut khimii polimerov AN Uz SSR (Institute of Polymer Chemistry, AN Uz SSR)

SUBMITTED: 00

DATE REC'D: 11/11/84

ENCL: 01

SUB CODE: OC, MT

NO REF SOV: 006

OTHER: 013

Card 2/3

ACCESSION NR: AT4010807

ENCLOSURE: 01

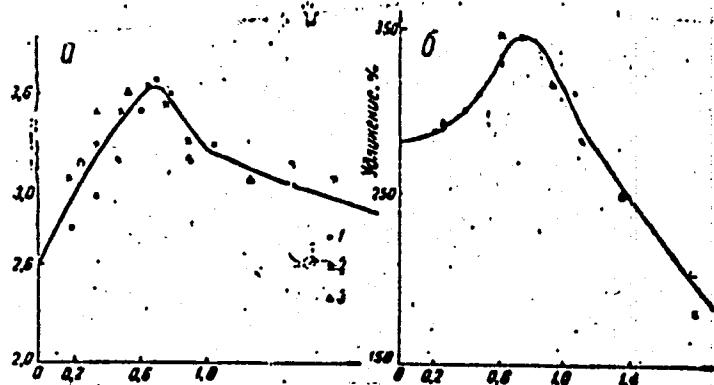


Figure 1.

Relationship between (a) rupture strength and (b) rupture elongation (in %) of polyvinyl alcohol and the content of bound S (in %): 1 - polymer treated with 1% solution of S₂Cl₂; 2 - polymer treated with 5% S₂Cl₂; 3 - polymer treated with 10% S₂Cl₂.

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L 13672-63

BPF(j)/EGT(n)/ADS

Pc-4

EM

ACCESSION NR: A13003525

S/0291/63/000/003/0057/0063 57

AUTHORS: Inoyatov, N. Sh.; Larin, P. P.; Aykhodzhayev, B. I.

TITLE: Reaction between polyvinyl alcohol and sulfur sesquichloride

SOURCE: Uzbekskiy khimicheskiy zhurnal, no. 3, 1963, 57-63

TOPIC TAGS: polyvinyl alcohol, sulfur sesquichloride, sulfur, polyvinyl, chlorine, hydroxyl, infrared analysis, absorption coefficient

ABSTRACT: Polyvinyl alcohol and sulfur sesquichloride were reacted at 110°C. Films were prepared from technical grade polyvinyl alcohol having a molecular weight of 15,000-18,000 and containing 2.2% acetyl groups and 36.4% hydroxyl groups. The reaction vessel was a glass cylinder, 6 cm high and 10 cm i.d. and equipped with a polyethylene film bottom. A 2% aqueous solution of polyvinyl alcohol was poured into the cylinder. After evaporation of the water, a colorless transparent film of alcohol formed on the surface of the polyethylene. Its thickness varied from 0.3 to 0.4 mm depending upon the amount of alcohol solution. Polyvinyl alcohol films were dried to constant weight. Sulfur sesquichloride freshly distilled

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ACCESSION NR: A73003525

over sulfur and dissolved in anhydrous toluene, was used in the reaction. Concentrations employed were: 1.0, 5.0, 10.0, 20.0, 50.0, 75.0, and 100 vol. %. Polyvinyl alcohol and sulfur sesquichloride were reacted by refluxing the films with a sulfur sesquichloride solution. Amount of sulfur sesquichloride used up depended upon the concentration of its solution and the reaction time. In all experiments, 1 gm of the polymer was reacted with 100 ml of sulfur sesquichloride solution for 10-120 minutes at a constant temperature (110° C). Prior to the reaction, polymer films were subjected to additional drying at 105° C for 1 hour. After completion of the reaction, films were removed from the reaction flask and thoroughly washed with benzene to remove any adsorbed sulfur sesquichloride and free sulfur. The films were then dried for 6 hours in air and weighed. The amount of free sulfur in the samples did not exceed 0.4% of the original weight of polyvinyl alcohol. Films, heated in anhydrous toluene at 110° C for 10-120 minutes, served as controls. Samples of both the original and the reacted polyvinyl alcohol were analyzed for combined sulfur (chemical method), chlorine (Schiff method), hydroxyl groups (Verley method) and for unsaturation (Knop method).

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L 13672-63

ACCESSION NR: AP3003525

thod). These samples were also subjected to infrared analysis with a double-beam IKS-14 spectrometer with a sodium chloride prism for 1800-650 cm⁻¹ range and a lithium fluoride prism for 3700-2700 cm⁻¹ range. Because of the variation in film thickness, spectral data are presented in terms of absorption coefficients calculated from the Bouger-Lambert law. The results indicate that a polyvinyl alcohol and sulfur sesquichloride reaction leads to the replacement of some of the hydroxyl groups by atoms of sulfur or chlorine which causes an increase in the molecular weight of the polymer. An increase in the amount of combined sulfur leads to a gradual increase in amorphism of polyvinyl alcohol. An increase in the concentration of sulfur sesquichloride and in the reaction time between the alcohol and the sesquichloride leads to a decrease in the number of hydroxyl groups and the appearance of O-S-O; O-C-Cl; O-S-Cl; C-S-Cl; and C-Cl linkages. Crig. art. has: 2 figures, 7 formulas, and 2 tables.

ASSOCIATION: Institut khimii polimerov AN UzSSR (Institute of Polymer Chemistry, AN "uzSSR")

SUBMITTED: 01Sep62

DATE ACQ: 23Jul63

ENCL: 60

SUB CODE: CH

NO. REF. SCV: 011

OTHER: 000

Card 3/3

AYKHODZHAYEV, B.I.; INOYATOV, N.; SHARIPDZHANOV, A.

Physicochemical properties of crosslinked polyvinyl alcohol.
Uzb.khim.zhur. 7 no.1:40-43 '63. (MIRA 16:4)

1. Institut khimii polimerov AN UzSSR.
(Vinyl alcohol polymers)

INOYATOV, N.Sh.; LARIN, P.P.; AYKHODZHAYEV, B.I.

Interaction of polyvinyl alcohol with sulfur monochloride. Uzb.
khim.zhur. 7 no.3:57-63 '63. (MIRA 16:9)

1. Institut khimii polimerov AN UzSSR.
(Vinyl alcohol polymers)
(Sulfur chlorides)

I 34249-65 EPP(s)/EMP(j)/EMT(m)/P Pe-4/Pr-4 10M/09

ACCESSION NR: A14049949

S/0000/64/000/000/0118/0121

AUTHOR: Inoyatov, V., Aikhodzhayev, B. I.

21
E+1 7

TITLE: Effect of structuration on the mechanical properties of polyvinyl alcohol

SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties and the modification of polymers); sbornik statey. Moscow, Izd-vo Nauka, 1964, 118-121

TOPIC TAGS: polyvinyl alcohol, structuration, crosslinking, polymer film, sulfur content, polymer mechanical property

ABSTRACT: The effect of crosslinking on the mechanical properties of polyvinyl alcohol (PVA) was investigated and the relationship between the structural parameters and the mechanical properties was determined. PVA film was characterized at different concentrations of sulfur and concentrations at different temperatures. It was found that the mechanical properties of the PVA film were affected by the temperature. It was established that the mechanical properties of the PVA stress-strain curve change as the amount of sulfur increased; the elongation and strength of the polymer changed considerably. Since the presence of crosslinks hinders orientation and the mutual displacement of macromolecules, it is assumed that the de-

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formability of PVA is decreased by structuration. The curve of total and residual elongation at different temperatures (25-250°C) shows that an increase in bound sulfur content rapidly decreases the total and residual elongation, especially at high temperatures, when the initial PVA undergoes an irreversible deformation up to 500 %^o, but the crosslinked samples, independent of the temperature, show a constant deformation of about 200% at the same rate. The mechanical properties of PVA are also affected by the crosslinking. The increase in bound sulfur content did not affect the strength of PVA, the elasticity modulus increased at the beginning of crosslinking (from 830 kg/mm² for the initial sample to 11,900 kg/mm² at 3%^o crosslinking) and decreased to 10,000 kg/mm² at a 10%^o sulfur content and remained constant. The variation of strength and elasticity modulus with the sulfur content is explained by the interaction of the long-chain polymer molecules first proceeds to the formation of the crosslinked network of the structure. The mechanical properties of PVA are affected by the

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ordered state are determined by the presence of both crosslinks and ordered regions, but in the case of the disruption of order it depends only on the number of crosslinks. Experimental data show that during strucuturation of a polymer, leading to a change in its mechanical properties, in addition to the number and type of crosslinks, the effect of the temperature on the mechanical properties of the material is also observed. The mechanical properties of the polymer are affected by temperature, which can be seen from the following data.

ASSOCIATION: Institut khimii polimerov AN UzSSR (Polymer chemistry Institute, AN UzSSR)

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Card 3/3

INOYATOV, N.; ZAUROV, R.I.; AYKHODZHAYEV, B.I.

Reaction of sulfur monochloride with polyvinyl alcohol. Khim. i
fiz.-khim. prirod. i sint. polim. no.1:197-204 '62
(MIRA 18:1)

UMIDOVA, V.I., prof.; INOYATOVА, L.Kh.; LAZARENKO, L.I.

Study of the lipid level in the blood of healthy inhabitants of
a rural locality and of those suffering from arteriosclerosis;
results of expedition work in some Uzbekistan provinces. Med.
zhur.Uzb. no.8:3-8 Ag '62. (MIRA 16:4)

(LIPIDS) (UZBEKISTAN-ARTERIOSCLEROSIS)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7

KARYAZHKIN, M. (Moskovskaya oblast'); IHOZENTSEV, A. (Angarsk)

Results of defects in electric equipment. Posh.delo 5 no.8;
11 Ag '59. (MIRA 12:12)
(Electric wiring--Safety measures)

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CIA-RDP86-00513R000618610020-7"

INOZEMTSEV, A.A., kand.geol.-mineral.nauk

Testing hot-laid asphalt concrete street pavements laid at
low temperatures. Trudy MADI no.23:196-199 '58.
(MIRA 12:1)

(Pavements, Concrete)

INOZEMTSEV, A., kand.tekhn.nauk (Leningrad)

Constructing asphalt-concrete pavements at temperatures below the
freezing point. Zhil.-kom.khoz. 10 no.19:8-9 '60.(MIRA 13:9)
(Leningrad--Pavements, Concrete--Cold weather conditions)

INOZEMTSEV, A., inzh. (Leningrad)

Let's secure the necessary durability of asphalt concrete city pavements. Zhil.-kom.khoz. 9 no.1:14 '59. (MIRA 12:3)
(Leningrad--Pavements, Concrete)

DANOVSKIY, Leonid Mechislavovich, dots., kand. tekhn. nauk; GROMOV,
L.K., kand. tekhn. nauk, dotsent; ANTONOV, Yu.A., dots.; NUL'CHAKOV,
K.V., inzh.; KOTYUKOV, I.A., kand. tekhn. nauk, dotsent; CHASHCHIN,
N.P., inzh.; MIROSHIN, P.V., dotsent; IMOZEMTSEV, A.A., inzh.; PE-
CHENIN, D.A., dotsent; KOVALEV, N.F., inzh.; SINKIN, P.A., inzh.;
POTOTSKIY, G.I., inzh., red.; USENKO, L.A., tekhn. red.

[Track work in sections with heavy freight traffic; from the
experience of the Omsk and Tomsk Railroads] Putevye raboty na gru-
zozapriazhennykh uchastkakh; iz opyta Omskoi i Tomskoi dorog. Mo-
skva, Vses. izdatel'sko-poligr. ob'edinenie M-va putei soobshche-
niia, 1961. 102 p. (MIRA 14:7)

(Railroads—Maintenance and repair) (Railroads—Freight)

INOZEMTSEV, A.A.

Snow fences with lower wind passages. Put' i put.khoz. 5
no.10:32 0 '61. (MIRA 14:10)

1. Nachal'nik sluzhby puti, g. Novosibirsk.
(Snow fences)

INOZEMTSEV, A.A., inzh.; AL'BREKHT, V.G., prof.

The Western Siberia Railroad is an immense creative laboratory. Put'
i put.khoz. 7 no.8:3-4 '63. (MIRA 16:9)

1. Nachal'nik sluzhby puti Zapadno-Sibirs'koy dorogi, Novosibirsk (for
Inozemtsev). 2. Prorektor Novosibirs'skogo instituta inzhenerov zhelezno-
dorozhnogo transporta (for Al'brekht).
(Siberia,Western--Railroads--Technological innovations)

INOZEMTSEV, A.A. (Novosibirsk)

Technical re-equipment of the tracks of the Western Siberia Railroad.
Zhel. dor. transp. 46 no.10:37-40 0 '64. (MIRA 17:11)

1. Nachal'nik sluzhby puti Zapadno-Sibirs'koy dorogi.

INOZEMTSEV, A.A. (Novosibirsk)

Organization of current track maintenance in heavy traffic sections.
Zhel.dor.transp. 47 no.10:35-38 0 '65.

(MIRA 18:10)

1. Nachal'nik sluzhby puti Zapadno-Sibirs'koy doregi.

INOZEMTSEV, A.I.

Ecology of the crested titmouse and its significance for forest protection in Moscow Province. Ornitologija no.3:146-160 '60.
(MIRA 14:6)

(Moscow Province—Titmice)
(Forest insects--Biological control)

INOZEMTSEV, A.A.

What the tree pipit eats. Agrobiologija no. 3:465-467
My-Je '60. (MIRA 13:12)

1.Moskovskiy gosudarstvennyy pedagogicheskiy institut
imeni V.I. Lenina.
(Pipits)

INOZEMSEV, A.A.

Greater spotted woodpecker as a destroyer of nests. Priroda 50
no.6:116-117 Je '61. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy pedagogicheskiy institut imeni V.I.
Lenina.

(Woodpeckers)

INOZEMTSEV, A.A.

Ecology of the titmouse Parus ater ater L. Zool. zhur. 40 no.12;
1862-1867 D '61. (MIRA 15:3)

1. State Pedagogical Institute of Moscow.
(Moscow region--Titmice)

INOZEMSEV, A.A.

Influence of the flycatcher *Muscicapa hypoleuca* Pall. on the abundance
of its prey. Dokl. AN SSSR 137 no.5:1218-1221 Ap '61.
(MIRA 14:4)

1. Moskovskiy gosudarstvennyy pedagogicheskiy institut im. V.I.
Lenina. Predstavлено akademikom I.I.Shmal'gauzenom.
(Pavlovskaya Sloboda Region—Flycatchers)
(Forest insects—Biological control)

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CIA-RDP86-00513R000618610020-7

INOZEMTSEV, A.A.

Materials on the ecology of blue and greater titmice in Moscow Province.
Ornitologija no.4:103-116 '62. (MIRA 16:4)
(Moscow Province--Titmice)

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CIA-RDP86-00513R000618610020-7"

INOZEMTSEV, A.A.

Evaluation of the effect on invertebrates caused by the pipit *Anthus trivialis* L. during the nesting period. Nauch. dokl. vys. shkoly; biol. nauki no.2:55-57 '62. (MIRA 15:5)

1. Rekomendovana kafedroy zoologii i darvinizma Moskovskogo gosudarstvennogo pedagogicheskogo instituta im. V.I.Lenina.
(PIPITS) (FOREST INSECTS)

INOZEMTSEV, A.A.

Food of yellow bunting in Moscow Province. Ornitologija no.5:
101-104 '62. (MIRA 16:2)

(Moscow Province---Bunting (Birds))
(Moscow Province---Birds---Food)

INOZEMTSEV, A.A.

Evaluation of the effect of the spotted flycatcher *Muscicapa hypo-*
leuca Pall. upon insects. Zool. zhur. 41 no.3:409-424 Mr '62.
(MIRA 153)

1. Department of Zoology, Pedagogical Institute of Moscow.
(Flycatchers)

INGEMTSEV, A.A.

Feeding habits of nestlings of the hedge sparrow and grass-hopper warbler (*Locustella fluviatilis* Wolf.) in the Moscow region. *Ornitologija* no. 6:101-103 '63. (MIRA 17:6)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7

INOZEMTSEV, A.L.

Selectivity of food for birds and some causes for its
changeability. Ornitologija no.6:424-450 '63.

(MTRA 17:6)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7"

INOZEMTSEV, A.A.

Food relationships of some passerines in the forests of the
Moscow region. Vest. IGU 18 no.15'152-155'63. (MIRA 16:9)
(MOSCOW REGION—PASSERIFORMES)

GLADKOV, N.A.; DEMENT'YEV, G.P.; PTUSHENKO, Ye.S.; SUDILOVSKAYA,
A.M.; INOZEMTSEV, A.A., red.

[A guide to the birds of the U.S.S.R.] Opredelitel' ptits
SSSR. [By] N.A.Gladkov i dr. [n.p.] Vysshiaia shkola, 1964.
536 p. (MIRA 17:6)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7

INOZEMTSEV, A.A. (Moskva)

Some causes and the characteristics of the body weight fluctuation
in birds. Zool. zhur. 43 no.2:232-241 '64. (MIRA 17:6)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7"

INZEMTSEV, A.A.

Feeding habits and other ecologic characteristics of goldcrests
and wren in Moscow Province. Biul. MOIP, Otd. biol. 69 no. 3:
64-72 My-Je '64. (MIRA 17:7)

INOZEMTSEV, A.A.

Evaluation of the effect of blue titmouse on insects during the
nesting period. Vest. Mosk. un. Ser. 6; Biol., pochv. 19
no. 3:56-59 My-Je '64. (MIRA 17:12)

1. Kafedra zoologii pozvonochnykh Moskovskogo universitita.

SEMESHKO, P.T. (Novosibirsk); INOZEMTSEV, A.A. (Novosibirsk);
VIGDERGAUZ, Ye.M. (Novosibirsk)

Organization of track and construction work during combined
traffic intervals. Zhel. dor. transp. 47 no. 5:44-49 My '65.
(MIRA 18:6)

1. Zamestitel' nachal'nika Zapadno-Sibirskskoy dorogi (for
Semeshko). 2. Nachal'nik sluzhby puti Zapadno-Sibirskskoy
dorogi (for Inozemtsev). 3. Zamestitel' nachal'nika sluzhby
dvizheniya Zapadno-Sibirskskoy dorogi (for Vigdergauz).

INOZEMTSEV, A.A.

Feeding habits of the long-tailed titmouse (*Aegithalos caudatus L.*)
in Moscow Province. Nauch.dokl.vys.shkoly; biol.nauki no.3:30-35
'65. (MIRA 18:3)

1. Rekomendovana kafedroy zoologii i darvinizma Moskovskogo gosudar-
stvennogo pedagogicheskogo instituta im. V.I.Lenina.

INOZEMTSEV, A.A.

Characteristics of the feeding habits of corvine birds in the Moscow
region. Ornitologija no.7:309-317 '65.

(MIRA 18:10)

INCOGNITO, No. 1.

Significance of highly developed tree crowns in the forest
Biocenosis. Ornitologia no. 7:416-436 '65.

(MIRA 18:10)

7/70 HEATING FRACTION PIPE LINED WITH IRON SLATE. (1920)
(Stern, B. Vol. 1, No. 8, p. 50, 1951 (C-11)). Calculations
calculated as are given for the insulation of 64 km of petroleum product pipe
lines by a company not pipe within the base insulating slating. The
length of the pipe is 64 km. After passing through a district heating station in the heat pipe
is reduced to 100°C. The outer end surface is at 20°C.

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CIA-RDP86-00513R000618610020-7"

SOV/90-58-11-2/6

AUTHOR: Inozemtsev, A.I.

TITLE: On Designing Electrical Power Equipment and Illumination in Petroleum-Chemical Plants (O proyektirovani i elektrosilovo go oborudovaniya i osveshcheniya neftekhimicheskikh zavodov)

PERIODICAL: Energeticheskiy Byulleten', 1958, Nr 11, pp 16 - 18 (USSR)

ABSTRACT: The author describes deficiencies in contemporary methods of designing electric power equipment and illumination in Soviet petroleum-chemical plants. The first fault is that the designers do not comply with the safety policies published in the circular letter MES E-8-54. A consequence of such negligence is that as soon as even a short voltage drop happens, electric equipment of the plant cannot maintain the standard. Under such circumstances it is impossible to introduce the advantageous asynchronous APV. Another deficiency is:designers do not take sufficient measures to ensure the power factor raise. The author says that it is necessary to design the installation of the plant's electric outfit in such a way that regular electric

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On Designing Electrical Power Equipment and Illumination in Petroleum-Chemical Plants

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illumination can be switched off from one central point. An independent emergency illumination network is obligatory in the plant. The author recommends electric fittings of the "Glubokoizluchatel'" or "Al'fa" type for this purpose. All outside illumination must be remote-controlled, not necessarily thru a special wire network but thru a telephone-network remote-control system of the UDUF or other type.

- 1. Refineries---Equipment
- 2. Refineries---Illumination
- 3. Towers (Chemistry)---Equipment
- 4. Towers (Chemistry)---Illumination
- 5. Industrial equipment---Design

Card 2/2

INOZEMTSEV, A.I., inzh. (g.Angarsk); GAFNER, Ye.R. (g.Angarsk); KATRUKHA,
V.V., inzh. (g.Krasnovodsk); IVANOV, I.I., kand.tekhn.nauk
(Moskva); LEBED', A.G., inzh. (Moskva)

Principal trends in the plan for overall electrification.
Elektrичество no. 12:82-84 D '60. (MIRA 14:1)
(Electrification)

INOZEMTSEV, B. S.

INOZEMTSEV, B. S. -- "Investigation of the Parallel Operation of Synchronous Generators with Piston Engines at Small Agricultural Electric-Power Stations." Min Higher Education USSR. Ukrainian Order of Labor Red Banner Agricultural Academy. Kiev, 1955.
(Dissertation for the Degree of Candidate in Technical Sciences)

No 1

SO: Knizhnaya Letopis', 1956, pp 102-122, 124

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7

INOZEMTSEV, B.S., kand. tekhn. nauk; PROTSENKO, R.D., kand. tekhn.
nauk; KOZIREV, M.M. [Kozyrev, M.M.], inzh.

Attachment for protecting electric motors. Mekh. s'il'.
hosp. 14 no.9:30 S '63. (MIRA 17:1)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610020-7"

INOZEMTSEV, D.; VLASOVA, A., starshiy inzh.; SIDORENKO, I.; IVANOVA, A.,
oblitsovshchitsa

School of progressive practices. Stroitel' no.1:27-28 Ja '61.
(MIRA 14:2)

1. Nachal'nik uchastka SSMU-29 tresta Sochispetsstroy (for Inozemtsev).
2. Proizvodstvenno-tehnicheskiy otdel tresta Sakstroy (Arzamas)
(for Vlasova). 3. Brigadir shtukaturov SMU-35 tresta BelGESstroy
(for Sidorenko). 4. SSMU-3 tresta Krasnodarstroy (for Ivanova).

(Building—Technological innovations)

INOZEMTSEV, D. P.

Technology

Organization of the repair of equipment used in manufacture of synthetic fibers, Moskva,
Gos. nauchno-tehn. izd-vo legkoi promyshl., 1951.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

SHEVCHENKO, V.A., kand.tekhn.nauk; INOZEMTSEV, G.B., inzh.

Studying the performance of a high-voltage rectifying system in
the coating of wood with varnish and paint materials. Der.prom.
10 no.11:15-17 N '61. (MIRA 14:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanicheskoy
obrabotki drevesiny.
(Spray painting, Electrostatic)

INOZEMTSEV, G.B., inzh.

Liquefaction of varnishes by ultrasonic waves. Der. prom. 12
no.9:16-17 S '63. (MIRA 16:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanicheskoy
obrabotki drevesiny.

BELOKON', M.Ye.; INOZEMTSEV, G.B.

Methods for analyzing paint concentration in the atomizing
jet during painting in an electric field. Lakokras.mat. i ikh
prim. no.4:46-47 '62. (MIRA 16:11)

SHEVCHENKO, V.A., kand.tekhn.nauk; INOZEMTSEV, G.B.

Applying ultrasonic waves in the furniture industry and construction. Bum. i der. prom. no.3:35-36 J1-S '63. (MIRA 17:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki drevesiny.

BELOKON', M.Ye.; INOZEMTSEV, G.B.; KOZYRINA, A.P.; VOZNYUK, V.S.;
OSTIYAN, Z.Yu.; KOZUB, M.M.; MAN'KO, Ya.V.

Electric apparatus for chair varnishing. Der. prom. 12 no.9:
11-~~12~~ S '63. (MIRA 16:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanicheskoy
obrabotki drevesiny (for Belokon', Inozemtsev, Kozyrina, Voznyuk).
2. Irshavskiy mebel'nyy kombinat (for Ostyan, Kozub, Man'ko).

INOZEMTSEV, G.B.; KOTKO, M.N., red.

[New methods of finishing bent furniture; based on the
materials of an interplant school] Novye metody otdelki
gnutoi mebeli; po materialam mezhzavodskoi shkoly. Kiev,
In-t tekhn. informatsii, 1964. 45 p. (MIRA 17:11)

INOZEMTSEV, G.B.

Using ultrasonics in wood gluing. Bum. i der. prom. no.1:26-28
Ja-Mr '64. (MIRA 17:6)

INOZEMTSEV, G.B.

Use of ultrasonic waves for the liquefaction of varnishing materials.
Bum. i der. prom. no.3:23-25 Jl-S '64..

(MIRA 17:11)

INOZEMTSEV, G.B.; VOZNYUK, V.S.

High-voltage switch for systems used in the lacquering of goods
in the electrostatic field. Bum. i der. prom. no.3:31-32 JI-S
'65. (MIRA 18t9)

INOZEMTSEV, G.

Technology

High-speed cutting of metals, Penza, Oblastnoe izd-vo, 1950.

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INOZEMTSEV, G.G.

Prochnost'rextsov. Sverdlovsk, Mashgiz, 1948. 104 p.

Lasting properties of cutting tools.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

INOZEMTSEV, G. I., kand.tekhn.nauk, dotsent

Solution of the general problem in the theory of shaping worm webs
with efficient geometrical parameters. Trudy SADI no.16 pt.1:
3-22 '59. (MIRA 13:11)

(Metal-cutting tools)

INOZEMTSEV, O.G., kand.tekhn.nauk, dotsent

Shaping abrasive wheels for relieving hob cutters. Izv.vys.ucheb.-
zav.; mashinostr. no.11:170-177 '61. (MIRA 14;12)

1. Saratovskiy politekhnicheskiy institut.
(Grinding wheels)

INOZEMTSEV, G.G.

Worm wheel hobs with a changed geometry. Stan. i instr. 32
no. 4:20-23 Ap '61. (MIRA 14:3)
(Metal-cutting tools)

INOZEMSEV, G.G., kand.tekhn.nauk

Shaping hob cutters having efficient geometrical parameters. Izv.
vys.ucheb.zav.; mashinostr. no.4:168-181 '61. (MIRA 14:6)

1. Saratovskiy politekhnicheskiy institut.
(Metal-cutting tools)

INOZEMTSEV, G.G., doktor tekhn.nauk

Profile errors in ground hobbing cutters. Izv.vys.ucheb.zav.;
mashinostr. no.6:182-189 '63. (MIRA 16:10)

1. Saratovskiy politekhnicheskiy institut.

SHAPOVALOV, V.F. ; RABINOVICH, N.G.; INOZEMTSEV, G.G.; AVTONOMOV, V.A.

'Completely automatic area for machining axle-type parts. Biul.tekh.-
ekon.inform.Gos.nauch.-issl.inst.nauch. i tekhn.inform. 16 no.11:37-
40 '63. (MIRA 16:11)